

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

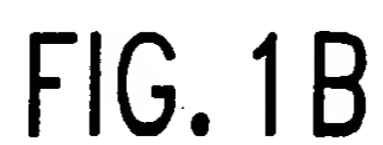
**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**



		*****	*	*	**	**	*****	*	*****	**
Plant	At	FYKVEAIVRP	WRIQVSSAL	LKIGIRGVTV	SDVRGFGAAG					
	Ric	FYKVEAILRP	WRVSOVSSAL	LKIGIRGVTV	SDVRGFGAAG					
	Kp	MKKIDAIKIP	FKLDDVREAL	AEVGITGMTV	TEVKGFGROK					
	Ec	MKKIDAIKIP	FKLDDVREAL	AEVGITGMTV	TEVKGFGROK					
Bacteria	RL	MKKIEAIKIP	FKLDEV-SP	SGVGLOGITV	TEAKGFGROK					
	Bj	MKKIEAIKIP	FKLDEV-SL	SGVGLOGITV	TEAKGFGROK					
	Az	MKKIEAIKIP	FKLDEVKEAL	HEVGIGKITV	TEAKGFGROK					
	Rc	MKKVEAIKIP	FKLDEVKEAL	QEAGIQGLSV	IEVKGFGROK					
	Sy	MKKIEAIIRP	FKLDEVKIAL	VNAGIVGMTV	SEVRGFGROK					
Archaeobacteria	Mt1	MKMIKAIVRP	DKVDDIVDSL	ENAGYPAFTK	INSVGRGKQG					
	Mt2	MKEVIAIIRP	NTVSKTVKAL	DVVGFPATM	AECFGRGKOK					
		1								
		I								
		↓								
			***	***	*	*	**	*	*****	**
Plant	At	GSTERHGGSE	FSEDKFVAKV	KMEIVVKKDQ	VESVINTIIE					
	Ric	GSTERQGGSE	FSEDKFVAKV	KMEIVVSKDQ	VEDVIEKIIE					
	Kp	GHTELRGAE	YMVD-FLPKV	KIEIVVTDDI	VDTCVDTIIR					
	Ec	GHTELRGAE	YMVD-FLPKV	KIEIVVPDDI	VDTCVDTIIR					
Bacteria	RL	GHTELRGAE	YVVD-FLPKV	KVEVVLADEN	AEAVIEAIRK					
	Bj	GHTDLYTGAE	YIVD-FLPKV	KIEIVIGDDL	VERAIDAIIR					
	Az	GHTELRGAE	YVVD-FLPKV	KIEVMEDSL	VERAIEAIQQ					
	Rc	GHTELRGAE	YVVD-FLPKV	KIEMVLPDEM	VDIAIEAIVG					
	Sy	GOTERYRGSE	YTVE-FLQKL	KLEIVVEDAQ	VDTVIDKIVA					
Archaeobacteria	Mt1	GLKVGE---I	FY-D-ELPKT	ILLIAVNDDE	VDEVVGLIKS					
	Mt2	GYEEGEKEGR	FIK--YIPKR	LISIVVDDAD	VPLVVGIIISK					
		51								
		II								
			*****	*****	*	*****	**	*		
Plant	At	GARTGEIGDG	KIFVLPVSDV	IRVRTGERGE	KAE					
	Ric	EARTGEIGDG	KIFLLPVSDV	IRVRTGERGD	KAE					
	Kp	TAQTGKIGDG	KIFVFDVARV	IRIRTGEEDD	AAI					
	Ec	TAQTGKIGDG	KIFVFDVARV	IRIRTGEEDD	AAI					
Bacteria	RL	AAQTGRIGDG	KIFVSNVEEV	IRIRTGETGI	DAI					
	Bj	AAQTGRIGDG	KIFVSNIEEA	IRIRTGESGL	DAI					
	Az	AAHTGRIGDG	KIFVTPVEEV	VRIRTGEKGG	DAI					
	Rc	AARTEKIGDG	KIFVSSIEQA	IRIRTGETGE	DAV					
	Sy	AARTGEIGDG	KIFVSPVDQT	IRIRTGEKNA	DAI					
Archaeobacteria	Mt1	SASTGNFGDG	KIFIQPIIEA	YTIRTGETGI	---					
	Mt2	VNRTGSFGDG	RIFVLPVEEA	IRVRTGETGE	IAI					

FIG. 1A





Docket No.: 5914-089-999  
Serial No.: 09/756,541  
Inventor(s): Coruzzi et al.  
Title: PLANT NITROGEN REGULATORY  
P-PII POLYPEPTIDES

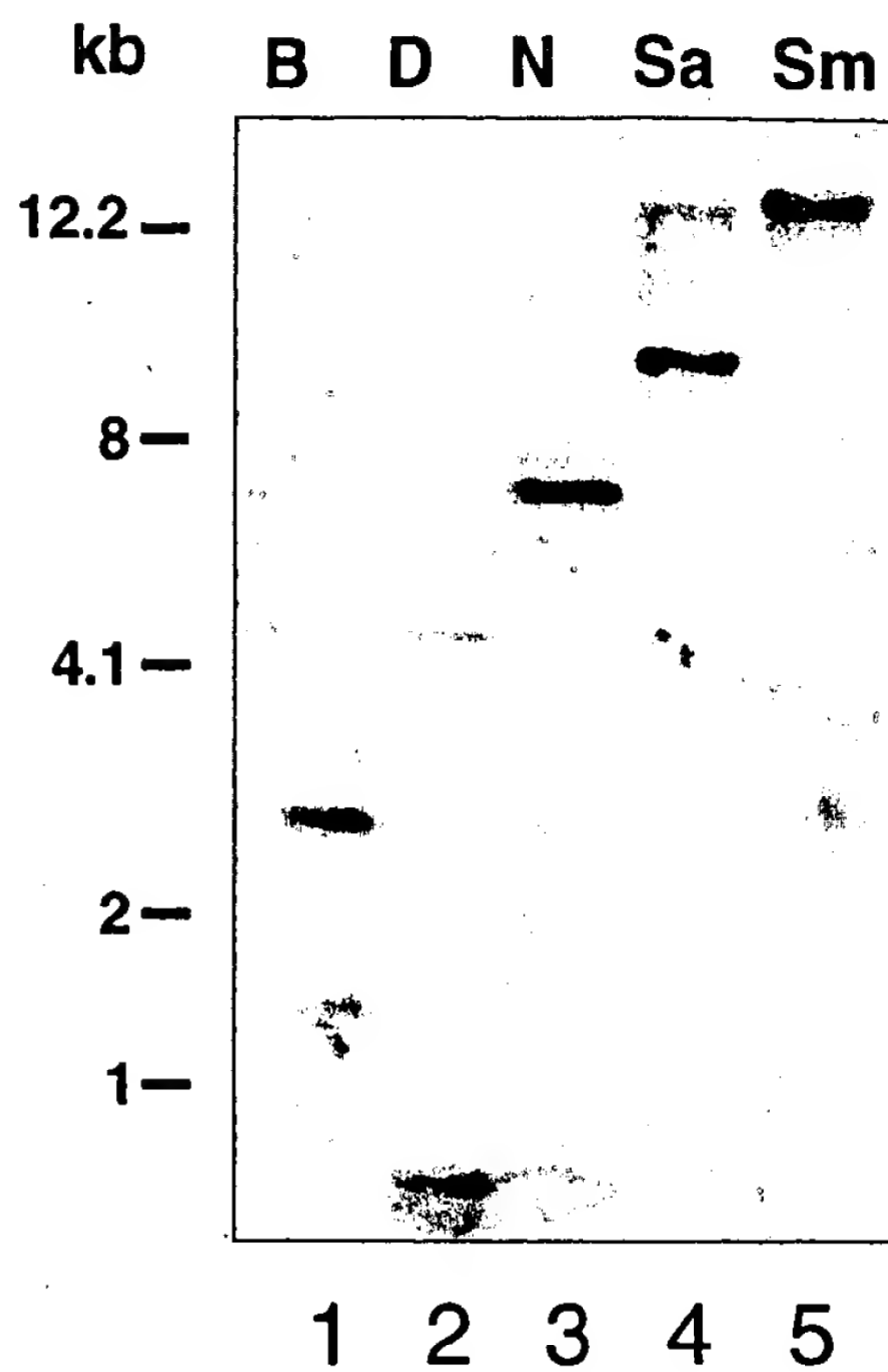


FIG.2

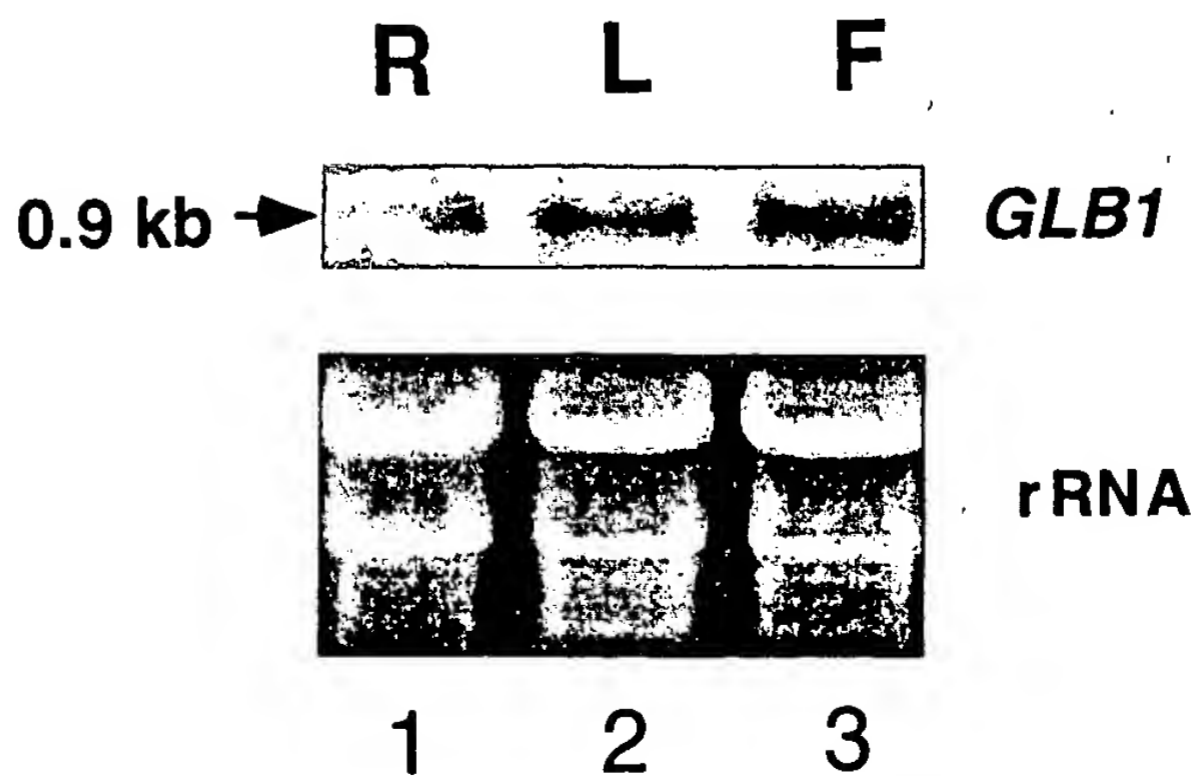


FIG.3



Docket No.: 5914-089-999  
Serial No.: 09/756,541  
Inventor(s): Coruzzi et al.  
Title: PLANT NITROGEN REGULATORY  
P-PII POLYPEPTIDES

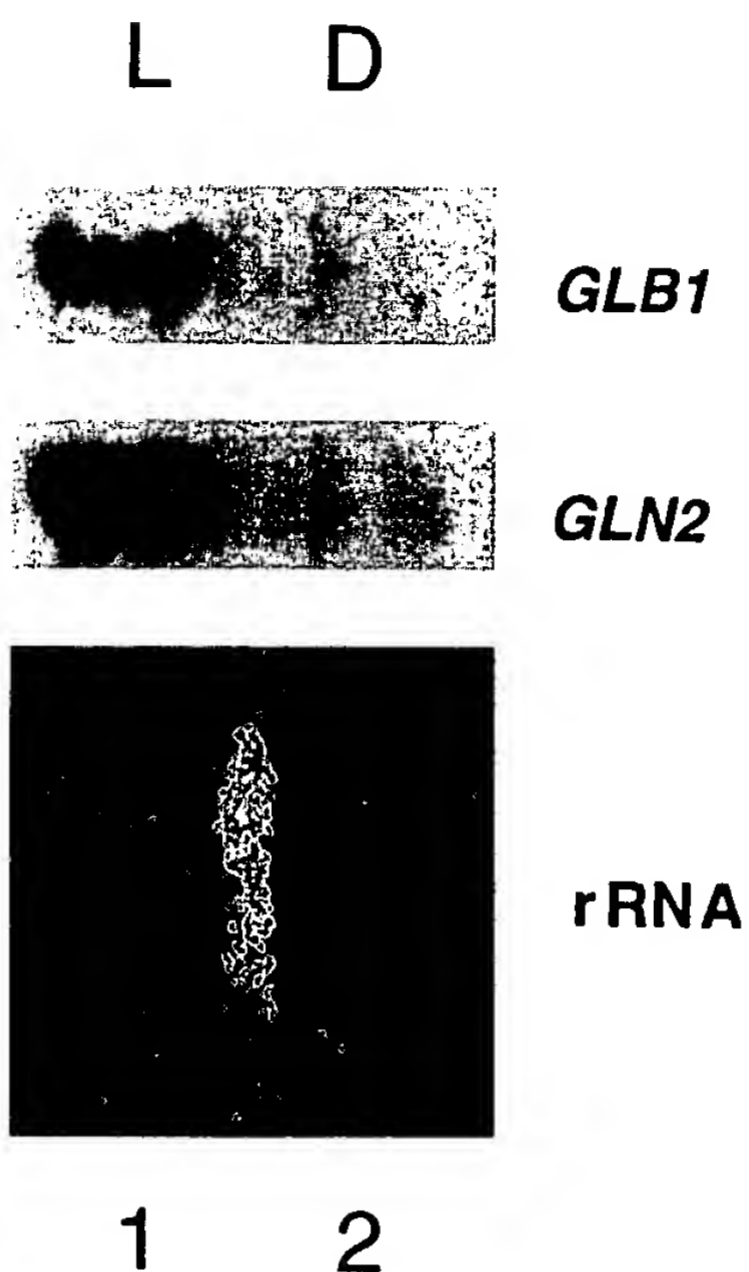


FIG.4A

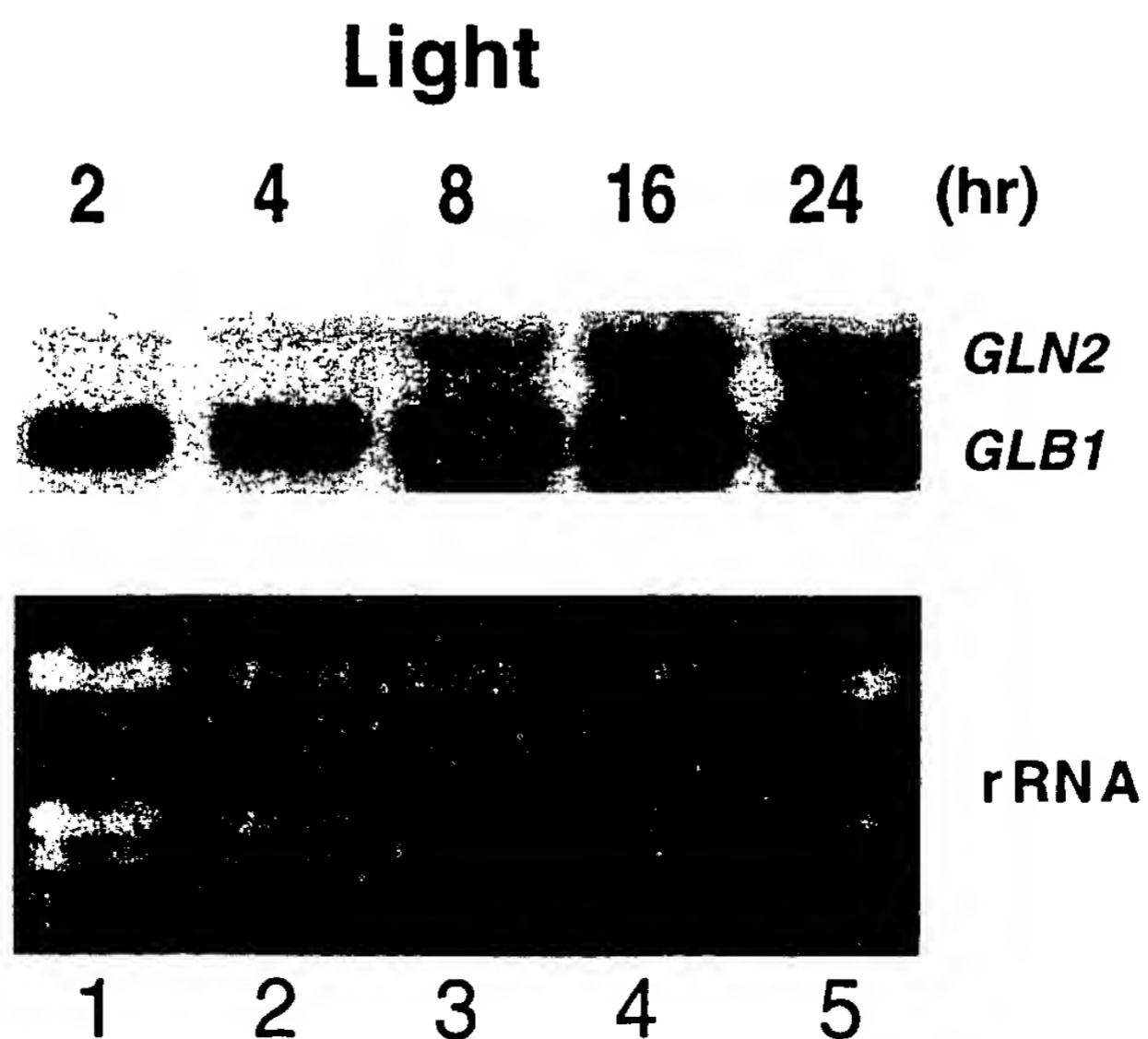


FIG.4B



Docket No.: 5914-089-999  
Serial No.: 09/756,541  
Inventor(s): Coruzzi et al.  
Title: PLANT NITROGEN REGULATORY  
P-PII POLYPEPTIDES

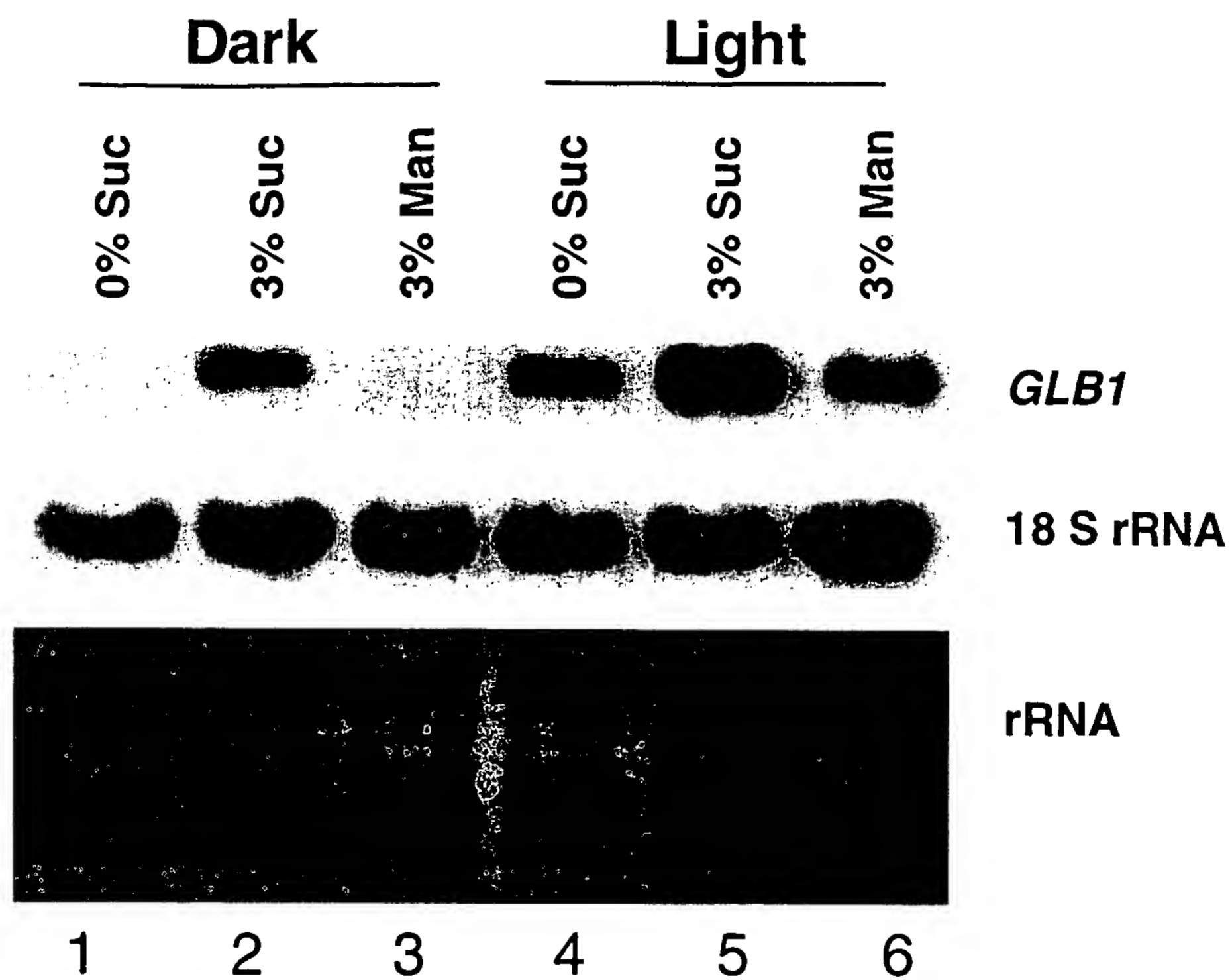


FIG.5



Docket No.: 5914-089-999  
Serial No.: 09/756,541  
Inventor(s): Coruzzi et al.  
Title: PLANT NITROGEN REGULATORY  
P-II POLYPEPTIDES

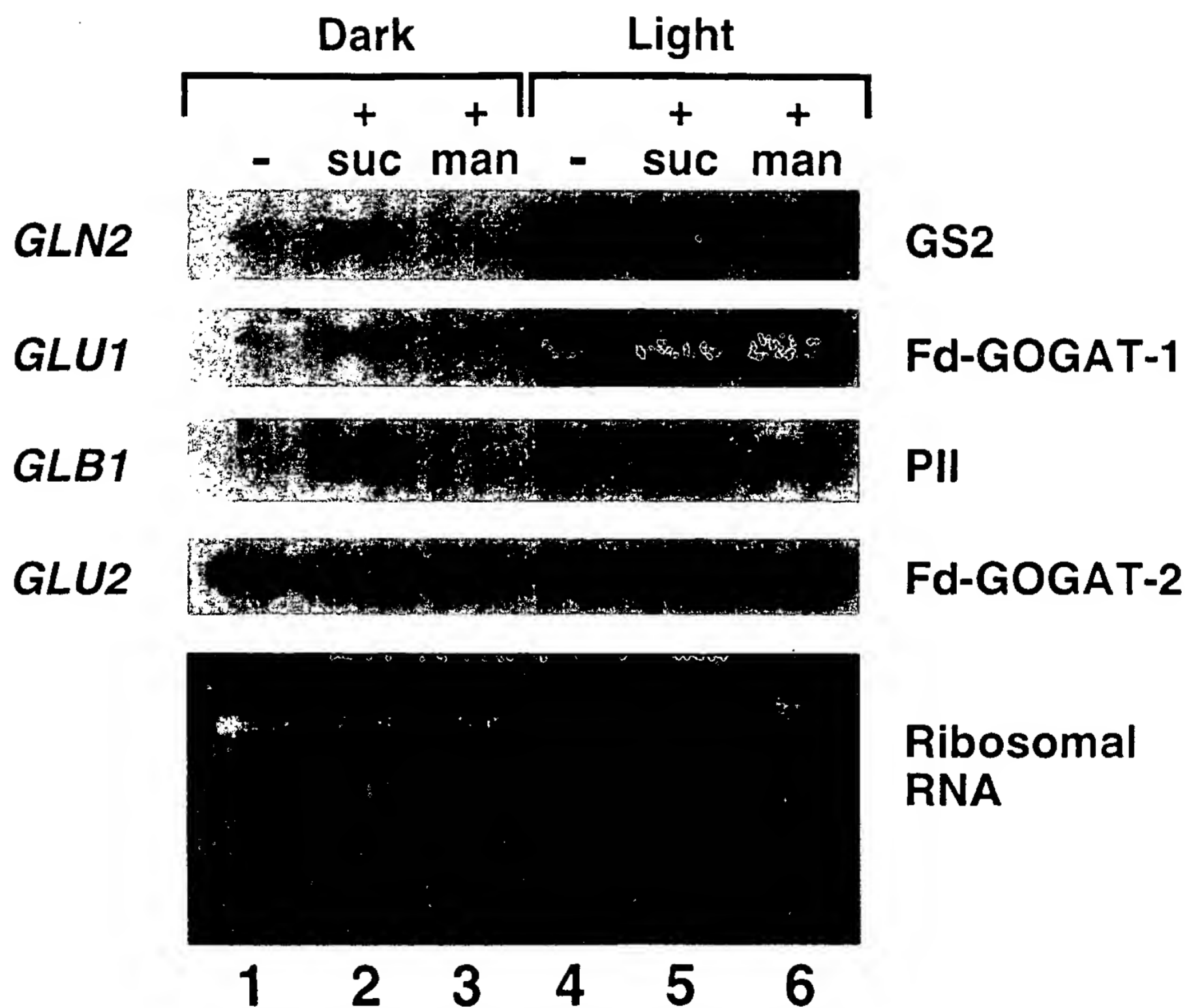


FIG.6



**FIG. 7**



Docket No.: 5914-089-999  
Serial No.: 09/756,541  
Inventor(s): Coruzzi et al.  
Title: PLANT NITROGEN REGULATORY  
P-PII POLYPEPTIDES

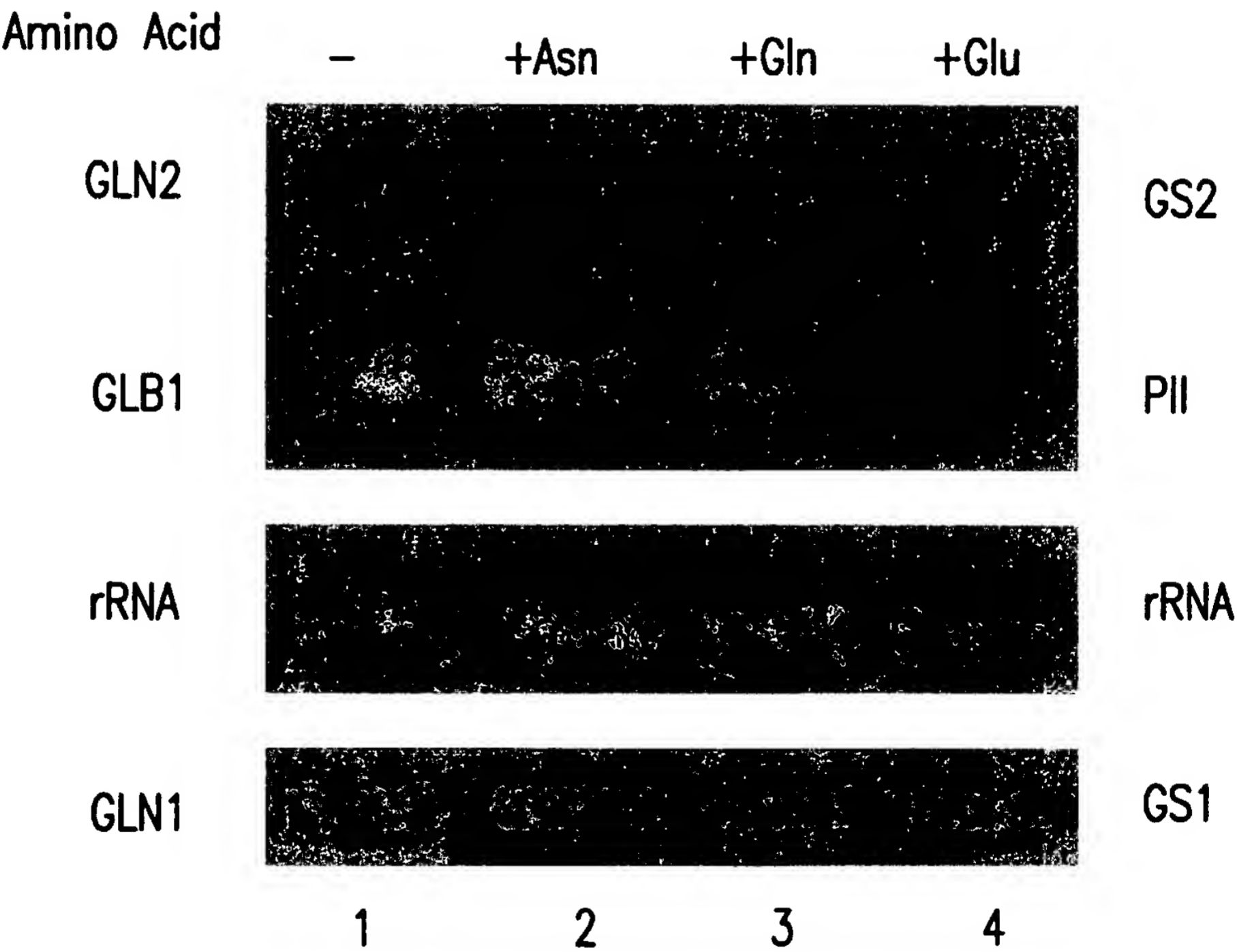


FIG.8



**FIG. 9**



Docket No.: 5914-089-999  
Serial No.: 09/756,541  
Inventor(s): Coruzzi et al.  
Title: PLANT NITROGEN REGULATORY  
P-PII POLYPEPTIDES

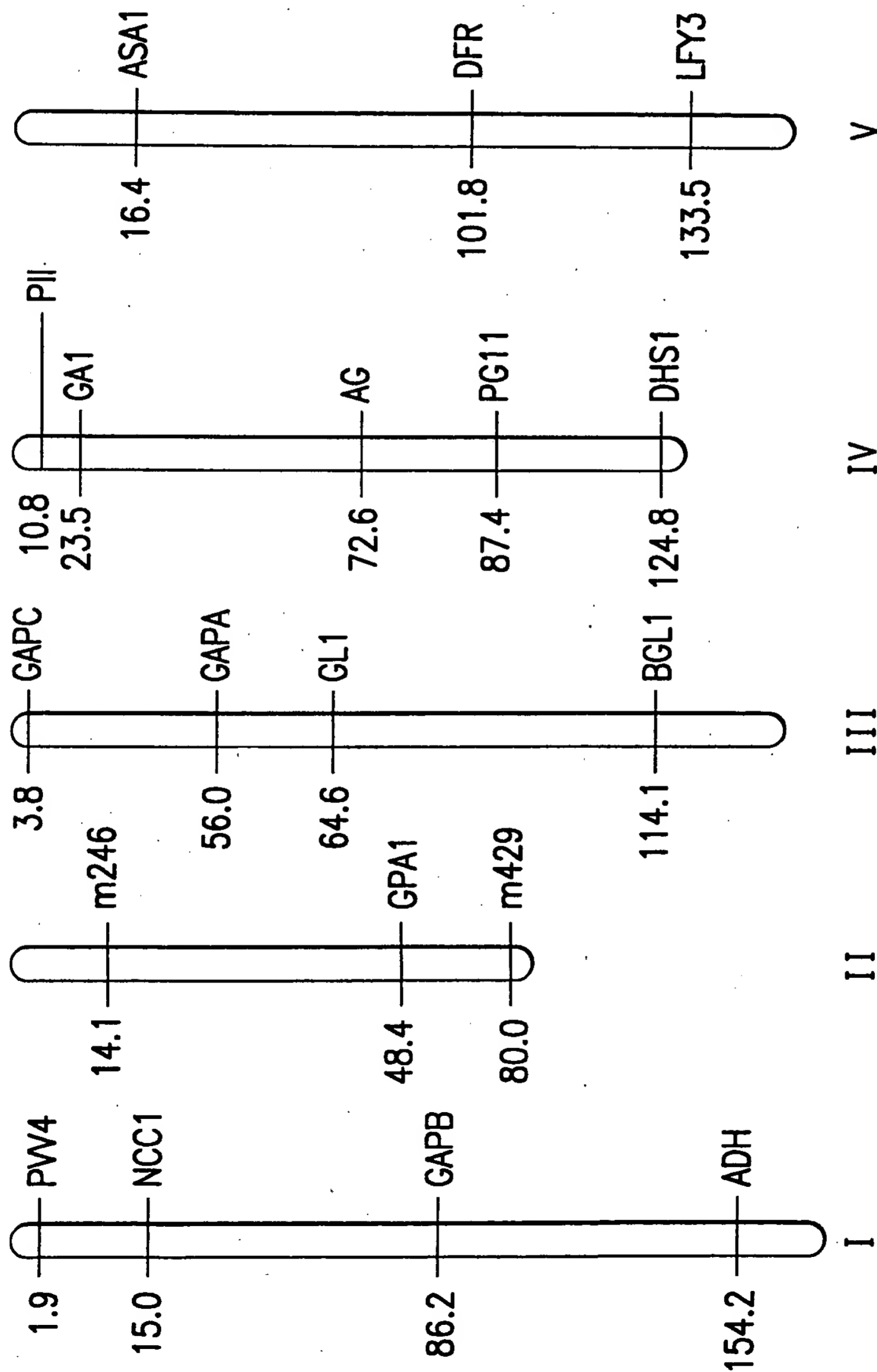




FIG.10

	#1	#2	#3	#4					
A	T	1	2	3	4	1	2	3	4
									

	#5	#6	#7	#8					
A	T	1	2	3	4	1	2	3	4
									


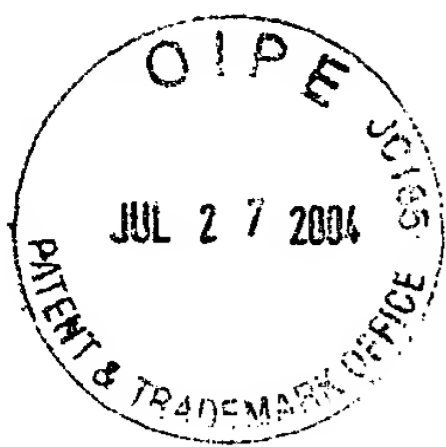
	#9	#10			
A	T	1	2	3	4
					

FIG.11



1 ctgaaagttg tgttaaaaaa aaaactagaa tcatggcggc gtcaatgacg  
51 aaacccatct caataacttc tctcggtttc tattctgata gaaagaacat  
101 tgcttttctt gattgcattt cgatttggtc tggattcaga cattcccgac  
151 catcttgctt cgatttggtc acaaagtcac cgagtaataa cagtcgtggt  
201 ttacctgtcg ttagtgccca aatatcttct gattatattc cagactcgaa  
251 attttacaag gtggaagcaa ttgtcagacc atggagaatc cagcaagttt  
301 catcggcttt actgaaaatc gggattcgag gtgttactgt ttctgatgtg  
351 agagggtttg gtgcacaagg aggttctacc gagagacacg gtggctctga  
401 gttctcggaa gacaaatttg ttgctaaagt taagatggaa atcgttggtt  
451 agaaagacca agtggaatct gtaatcaaca caataattga aggagcaagg  
501 acaggagaga ttggtgatgg caagatTTTT gttttgcctg tgtcagatgt  
551 cataagagtt aggacaggtg agcgtgggga gaaagcagag aagatgactg  
601 gtgatatgct ttcaccgtct taggaacaaa cagagctcaa gaatggtttt  
651 tttttttttc atttcggtct ctagattctg cgaataataa tgaatggagt  
701 ctgtgttttg tttcatgttg aatcgatcaa gatgtgtttt taactgtaca  
751 tgaattatgc agaaacatct gtcctgggtc tcagacatcg aaactctggt  
801 cctaataaaa aaaaaaa

FIG.12



1 GCGGTGTCGG CCGCTCTAGA ACTAGTGGAT CCCCCGGGCT GCAGGAATTC  
51 GGCACGAGGC TACTGCGAAA CTGGGCTTGC TCACTCCTCT TCATTCTAAT  
101 AACATCAAGA AAGAATTCCC TGTTTTTGAT TTCAGTTTGT TTTGTCCAGA  
151 GCTTAGACAT TCTCGGTTTT CTCAC TTAA CACCGCGGTC AAGCGCGTAA  
201 GATATGCCCC CGTCGTTCTT GTGATTAATG CCCAAAGCTC GCCTGACTAC  
251 ATTCCTGATG CTAAATTCTA CAAAGTGGAA GCAATTCTCA GGCCCTGGCG  
301 AGTCTCGCAA GTTTCCTCGG CTTTGCTAAA AATTGGTATT CGAGGTGTTA  
351 CTGTTTCTGA TGTTGAGGT TTTGGTGCTC AAGGTGGTTC AACTGAGAGG  
401 CAGGGCGGCT CAGAATTTTC TGAAGACAAG TTTGTTGCTA AAGTTAAGAT  
451 GGAGATCGTG GTTAGCAAAG ACCAGGTTGA GGATGTTATA GAAAAAATCA  
501 TTGAGGAGGC AAGAACTGGA GAGATTGGAG ACGGCAAGAT TTTCTTGCTG  
551 CCTGTTTCAG ATGTAATAAG AGTCCGCACT GGTGAGCGGG GTGATAAGGC  
601 TGAGAGGATG ACAGGAGGGC GATCTGACAT GAGTACTTCT GCTTGACTGC  
651 TGTGACCAGC AATATAGCAT TCAGGACTAA CTGTCCTTTG AGAAAGCCCC  
701 GCCCTTATTA GCCATTATCC AGTATAGCTT GATAATTTGA ATTTTTTGTT  
751 TTCTTAATA AAGAAACAAA GATCTTTTCA TTATCCTGTT GATGATAATT  
801 GAAAACGGAA GGATCGCGAA TTTGTTCAAG TGCTTGCAAG ATAAATAACA  
851 AGAAGAGGAG TAATGTTAAC AAAAAAAAAA AAAAAAAAAA ACTCGAG

FIG.13